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APPLICATION NO.	FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/617,875 07/14/2003		07/14/2003	Nobumasa Abe	Q76514	3427	
23373	7590	09/14/2004		EXAMINER		
SUGHRUE	MION,	PLLC	GRAINGER, QUANA MASHELL			
	SYLVAN	IIA AVENUE, N.W.	ART UNIT	PAPER NUMBER		
SUITE 800 WASHINGTON, DC 20037				2852		

DATE MAILED: 09/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Applica	tion No.	Applicant(s)					
		10/617,	875	ABE, NOBUMASA	ABE, NOBUMASA				
	Office Action Summary	Examine		Art Unit					
		Quana	Grainger	2852	4				
-	The MAILING DATE of this commun				ess				
Period fo	or Reply								
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD F MAILING DATE OF THIS COMMUN Insions of time may be available under the provisions ISIX (6) MONTHS from the mailing date of this comme period for reply specified above is less than thirty (3) operiod for reply is specified above, the maximum store to reply within the set or extended period for reply reply received by the Office later than three months are departed term adjustment. See 37 CFR 1.704(b).	ICATION. of 37 CFR 1.136(a). In no enunication. io) days, a reply within the statutory period will apply and will, by statute, cause the apply in the statute.	event, however, may a reply be atutory minimum of thirty (30) of will expire SIX (6) MONTHS fro oplication to become ABANDO	e timely filed days will be considered timely. om the mailing date of this comm NED (35 U.S.C. § 133).	nunication.				
Status									
1)[Responsive to communication(s) file	ed on .							
2a)□	, , ,	2b)⊠ This action is	non-final.						
3)	' 								
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.								
Disposit	ion of Claims								
4)⊠	Claim(s) 1-16 is/are pending in the a	application							
الكا(+	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)□	Claim(s) is/are allowed.								
· ·	 ☐ Claim(s) 1,2,6,7,9,14 and 15 is/are rejected. ☐ Claim(s) 3-5,8,10-13 and 16 is/are objected to. 								
7)🖂									
8)[Claim(s) are subject to restriction and/or election requirement.								
Applicat	ion Papers								
9)	The specification is objected to by the	e Examiner.							
·	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.								
	Applicant may not request that any obje	· ·	•						
	Replacement drawing sheet(s) including	the correction is requ	ired if the drawing(s) is	objected to. See 37 CFR	1.121(d).				
11)	The oath or declaration is objected to	by the Examiner. N	lote the attached Office	ce Action or form PTO-	152.				
Priority ι	under 35 U.S.C. § 119								
12)🖂	Acknowledgment is made of a claim	for foreign priority u	nder 35 U.S.C. § 119	(a)-(d) or (f).					
	☑ All b)☐ Some * c)☐ None of:	5 . ,	ŭ						
	1.⊠ Certified copies of the priority	documents have be	en received.						
	2. Certified copies of the priority	documents have be	en received in Applica	ation No					
	3. Copies of the certified copies	of the priority docum	nents have been rece	ived in this National Sta	age				
	application from the Internatio	nal Bureau (PCT Ru	ule 17.2(a)).						
* 5	See the attached detailed Office actio	n for a list of the cer	tified copies not recei	ved.					
Attachmen									
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P	PTO-048)	4) Interview Summa Paper No(s)/Mail						
3) 🛛 Infor	mation Disclosure Statement(s) (PTO-1449 or		5) Notice of Informa	Patent Application (PTO-15	52)				
	r No(s)/Mail Date	-	6)						

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DETAILED ACTION

Priority

1. Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

Information Disclosure Statement

2. The information disclosure statement filed 7-14-2003 has been considered.

Drawings

3. The formal drawings are approved by the examiner.

Title

4. The title of the invention is not descriptive. A new title is required that is clearly indicative of the invention to which the claims are directed.

Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-2, 6, 9, and 14 are rejected under 35 U.S.C. 102(b) as being anticipated by Kouroku et al. (5,781,841). The image forming apparatus by Kouroku et al. comprising image forming stations for respective colors arranged along a transfer belt, each said image forming station including an image carrier, a charging means and a developing means disposed around

said image carrier, wherein said transfer belt is arranged obliquely, and an electrical component box 63 in which power sources and control circuits are housed is arranged below or above said transfer belt (Figure 7). The array-type writing heads 49 are arranged around the image carriers, respectively so that a latent image is formed onto each said image carrier by each said array-type writing head. The transfer belt 43 is a paper carrying belt.

Kuouroku et al. teaches an image forming apparatus comprising image forming stations for respective colors arranged along a transfer belt, each said image forming station including an image carrier, a charging means, an array-type writing head as an image writing means, and a developing means disposed around said image carrier, wherein said transfer belt is arranged obliquely, and a driving circuit for said array-type writing heads is arranged below or above said transfer belt (Figure 7).

Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 7 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kouroku et al. does not teach an intermediate transfer belt. The examiner takes official notice that it is

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known in the art to use an intermediate transfer belt interchangeably with a transfer belt to provide an image transfer means in a color image forming apparatus. It would have been obvious to one of ordinary skill in the art at the time the invention was made to use an intermediate belt since an intermediate transfer belt is functionally equivalent for performing transfer in a color image forming apparatus.

Allowable Subject Matter

9. Claims 3-5, 8, 10-13, and 16 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Contact Information

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Quana Grainger whose telephone number is 571-272-2135. The examiner can normally be reached on weekdays between the hours of 7-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Arthur Grimley can be reached on 571-272-2136. The fax phone numbers for the organization where this application or proceeding is assigned are 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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QG